

What I claim is:

1. A machining apparatus comprising a rotating spindle mounted rotatably, a rotating drive source for
5 rotationally driving said rotating spindle, a rotary tool detachably mounted on said rotating spindle, and at least one screwed member screwed to said rotating spindle for mounting said rotary tool on said rotating spindle, wherein

10 selective rotation inhibiting means is disposed for selectively inhibiting rotation of said rotating spindle.

2. The machining apparatus according to claim 1, wherein said selective rotation inhibiting means includes
15 at least one stop concavity formed in an outer peripheral surface of said rotating spindle, and a stop member to be selectively located at an operating position where said stop member engages said stop concavity, and a nonoperating position where said stop member recedes from
20 said stop concavity.

3. The machining apparatus according to claim 2, wherein a plurality of said stop concavities are formed at intervals in a circumferential direction.

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4. The machining apparatus according to claim 2, wherein said selective rotation inhibiting means includes an accommodation member having, formed therein, an accommodation hole having an opening opposed to the outer
30 peripheral surface of said rotating spindle, said stop member is slidably accommodated in said accommodation hole, and when said stop member is located at said operating position, a front end portion thereof partly protrudes from said opening of said accommodation hole, while when
35 said stop member is located at said nonoperating position,

a substantial whole thereof is accommodated in said accommodation hole.

5. The machining apparatus according to claim 4,
5 wherein said selective rotation inhibiting means includes elastic biasing means for elastically biasing said stop member to said nonoperating position, and forced slide means for selectively sliding said stop member to said operating position against an elastic biasing action of
10 said elastic biasing means.

6. The machining apparatus according to claim 5,
wherein said forced slide means causes compressed air to act on a rear end of said stop member.

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7. The machining apparatus according to claim 1,
wherein said rotary tool has an annular cutting blade containing diamond grains.